

## OAQ Process Information Application PI-02B: COMBUSTION – BOILERS, PROCESS HEATERS & FURNACES

State Form 52536 (2-06)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

**IDEM – Office of Air Quality – Permits Branch** 100 N. Senate Avenue, Indianapolis, IN 46204

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NOTES:

- The purpose of this form is to specify details that pertain only to boilers, process heaters and furnaces.
- For the purposes of this form, a process heater is any combustion unit that provides heat directly or indirectly to the process.
- Complete one PI-02B form for each emissions unit. If there are multiple emission units that are identical in nature, capacity, and use, you may use one PI-02B form to summarize the units.
- Detailed instructions for this form are available online at <a href="www.in.gov/idem/air/permits/apps/instructions/pi02Binstructions.html">www.in.gov/idem/air/permits/apps/instructions/pi02Binstructions.html</a>.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality.
   Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for any one to inspect and photocopy.

		PART A: Process Unit De	tails		
Part A specifies operating information that is unique to boilers, process heaters and furnaces. Definitions and additional explanation of terminology are included in the instructions for this form.					
1.	Unit ID:				
2.	Type of Combustion Unit				
	☐ Boiler:	☐ Industrial Boiler	☐ Commercial Boiler		
L		☐ Institutional Boiler	☐ Horseshoe Boiler		
		☐ Dutch Oven	☐ Drying Oven		
	Process Heater:	☐ Fuel Cell	☐ Space Heater		
	☐ Furnace:	Crucible	☐ Crucible Pot		
		☐ Cupola	☐ Electric Arc		
		☐ Electric Induction	☐ Open Hearth		
		☐ Open Hearth, Oxygen Lanced	☐ Pot		
		Reverberatory	☐ Sweat		
3.	Combustion Process				
	☐ Cyclone Burner	Fluidized Bed – Circulating	g ☐ Fluidized Bed – Bubbling		
	Overfeed Stoker / Traveling Grate Pulverized – Dry Bo		☐ Pulverized – Wet Bottom		
	☐ Spreader Stoker	☐ Underfeed Stoker	Other (specify):		
4.	Heat Transfer Method:	☐ Watertube ☐ Firetube ☐ Ca	ast Iron		
5.	Transfer Surface	☐ Horizontal ☐ Straight			
	Arrangement (check all that apply):	☐ Vertical ☐ Bent Tube			
	Firing Configuration:	☐ Cyclone ☐ FI	luidized Bed Combustor		
6.			ormal Stoker		
J.			angential		
7.	Heat Transfer Method (process heaters only):	☐ Direct ☐ Indirect	- <b>V</b>		
		☐ Natural Gas Only ☐ Other – Attach completed PI-02F.			

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PART B: Emission Controls and Limitations					
Part B identifies control technology, control techniques or other process limitations that impact air emissions.					
9. Add-On Control Technology: Ident	. Add-On Control Technology: Identify all control technologies used for this process. Attach completed CE-01 (unless "none").				
□ None	☐ None				
☐ Baghouse / Fabric Filter – Attach C	Baghouse / Fabric Filter – Attach CE-02.		Cyclone – Attach CE-03.		
☐ Electrostatic Precipitator – Attach G	☐ Electrostatic Precipitator — Attach CE-04.		Absorption / Wet Collector / Scrubber – Attach CE-05.		
☐ NO <sub>X</sub> Reduction – Attach CE-09.		Other (specify): - A	ttach CE-10.		
10. Control Techniques: Identify all control techniques used for this process.					
☐ None (explain):					
☐ Ammonia Injection	☐ Biased Burner Firing	☐ Burning Oil / Water Em	ulsions		
☐ Burners Out Of Service	☐ Duct Injection	☐ Flue Gas Recirculation			
☐ Flyash Reinjection	☐ Furnace Injection	☐ Load Reduction			
☐ Low Excess Air	☐ Low NO <sub>X</sub> Burners	Overfire Air			
Reburn	Reduced Air Prehea	t			
☐ Staged Combustion	Other (specify):	- Attach comple	ted GSD-09.		
11. Process Limitations / Additional Information: Identify any acceptable process limitations. Attach additional					
information if necessary.					
	PART C: Previously Ir	stalled Boilers			
Part C identifies all boilers that were installed prior to submitting this application.					
12. Are there any Previously Installed	Bollers present at this s	source?			
☐ No – Proceed to Part D.					
☐ Yes → ☐ Information attached. ☐ Information is contained in operating permit:					
PART D: Furnace Details					
Part D identifies details that pertain only to furnaces. If there are no furnaces identified with this application, completion of this table is not required.					
13. Material Melted:					
14. Maximum Melt Rate (specify units):					
15. Flux Type:					
6. Flux Amount (specify units):					
17. Oven Throughput Material:					